

FIG. 1  
PRIOR ART

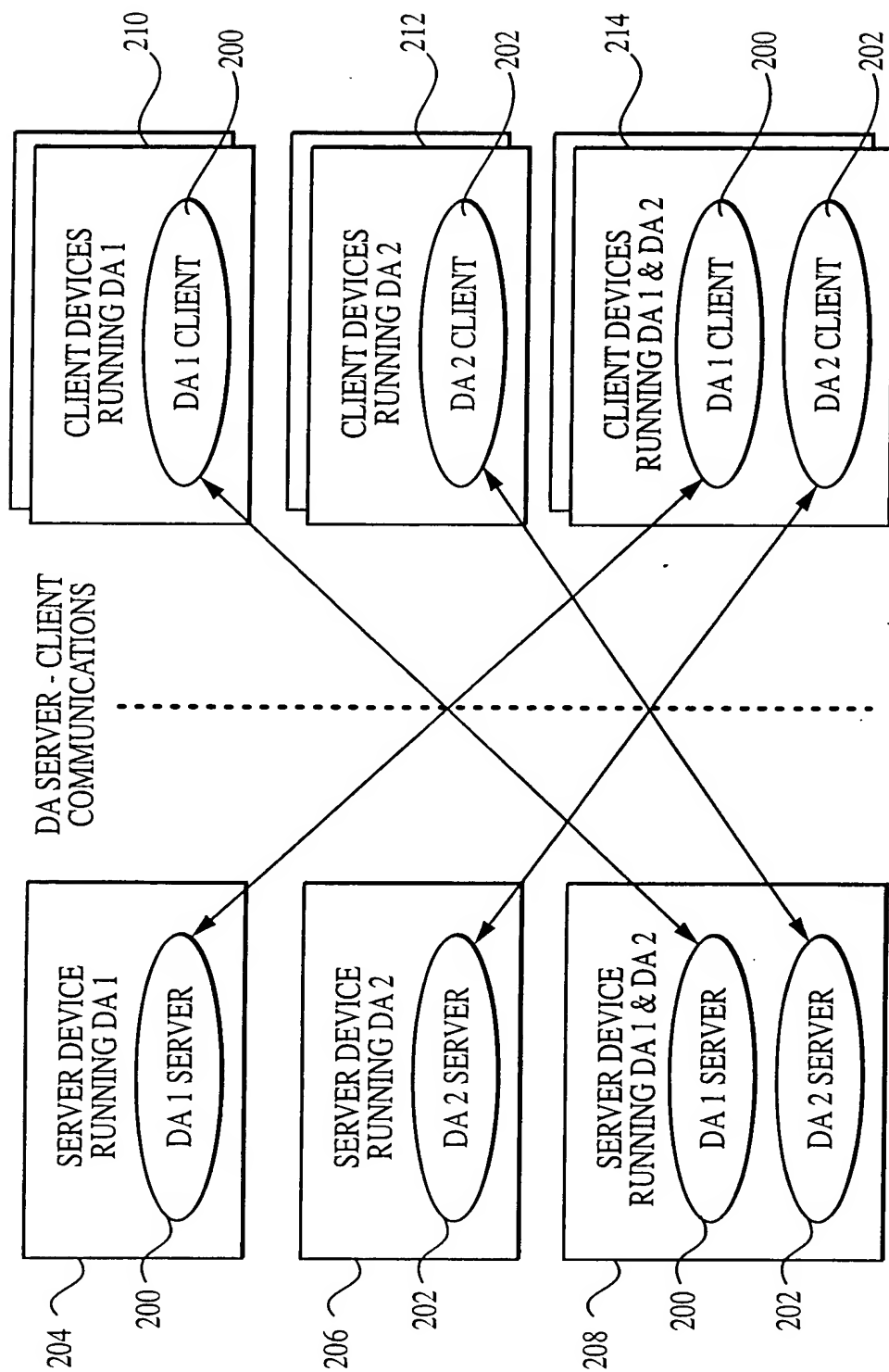


FIG. 2

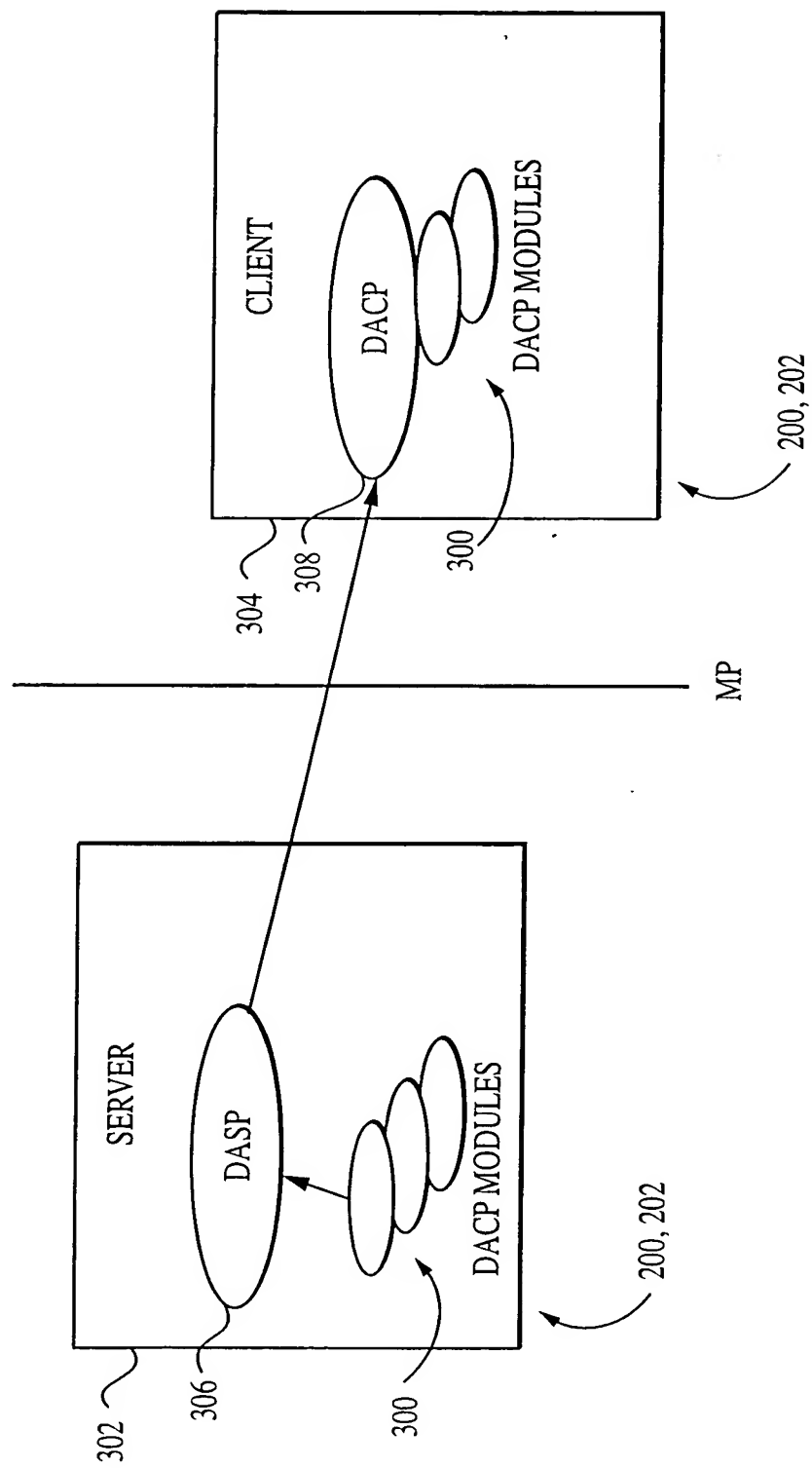


FIG. 3

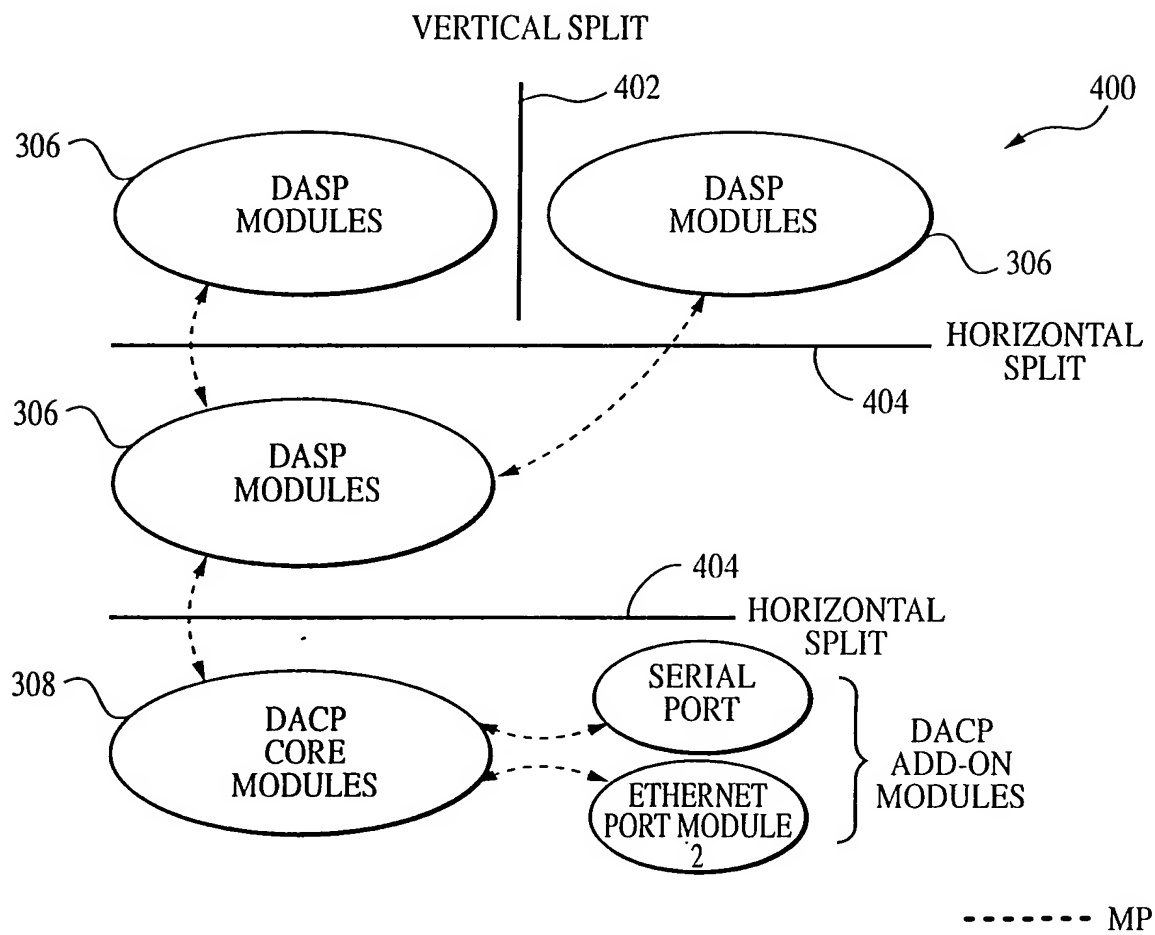
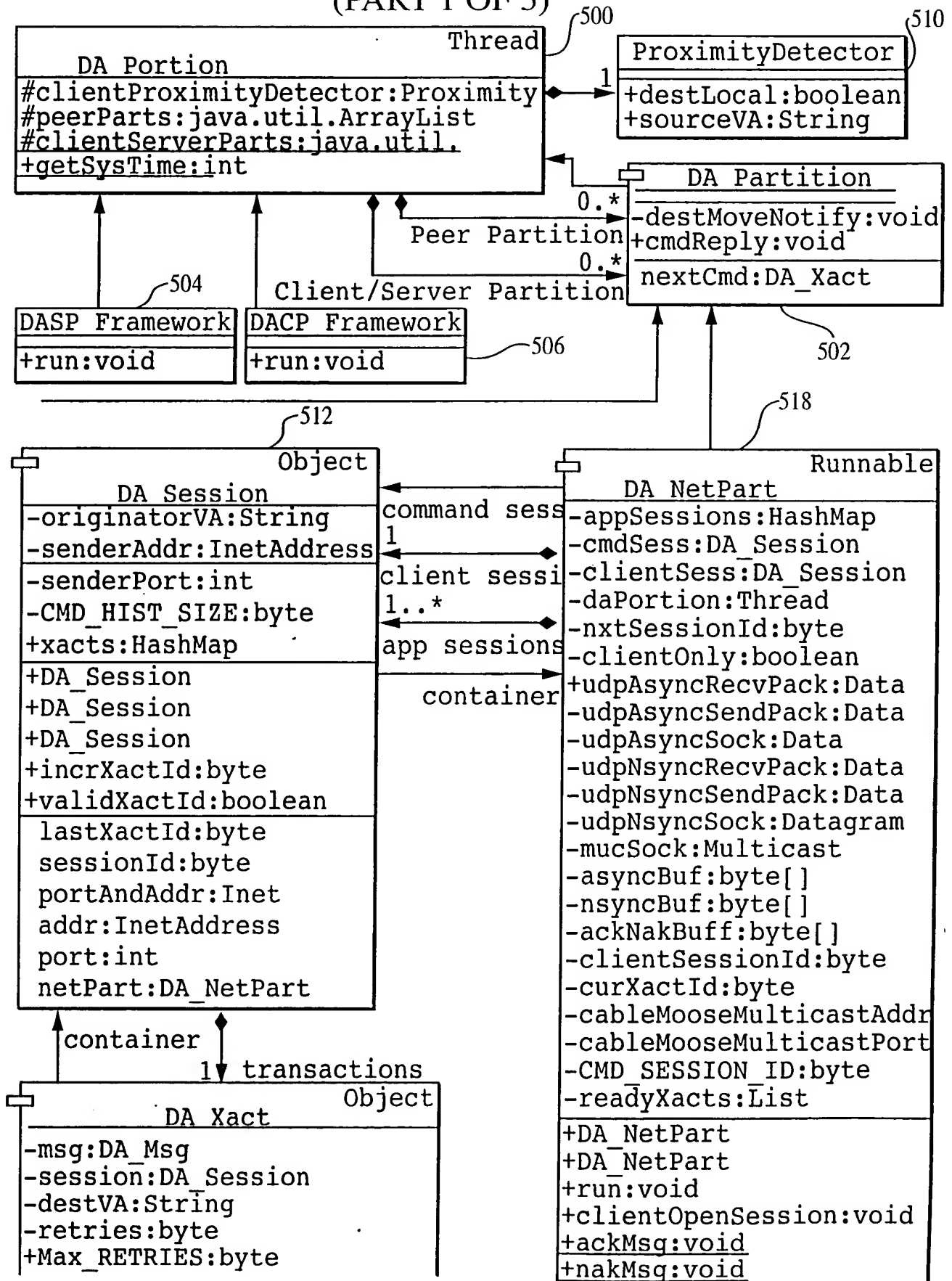


FIG. 4

FIG. 5  
(PART 1 OF 5)



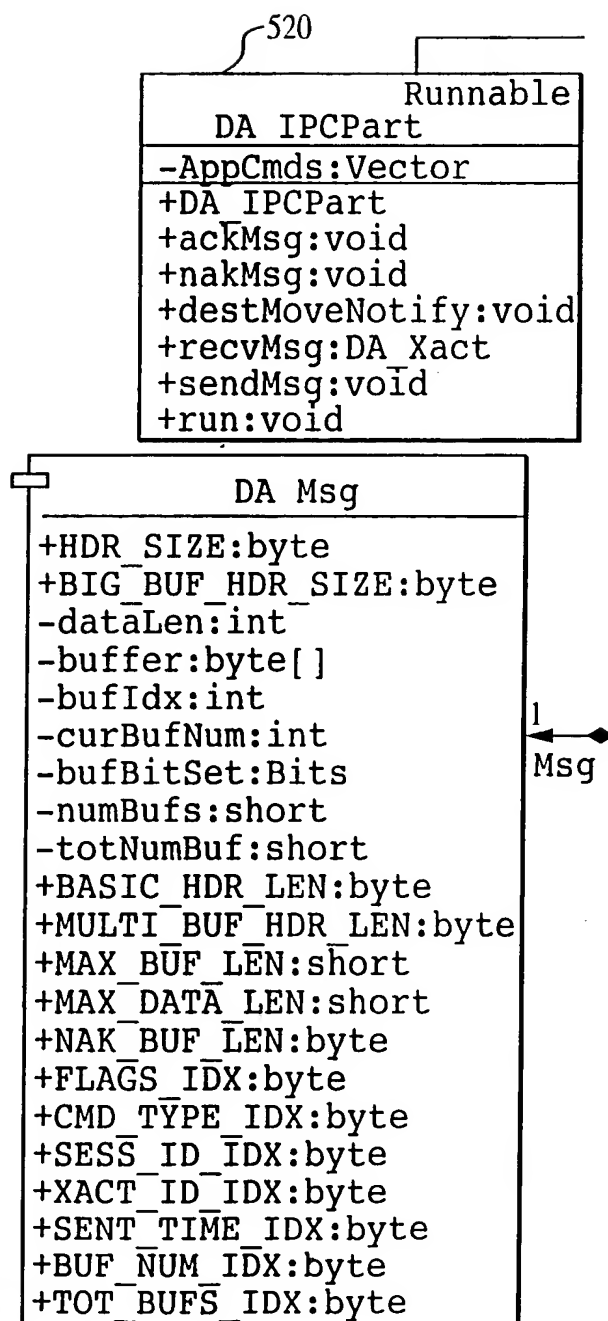
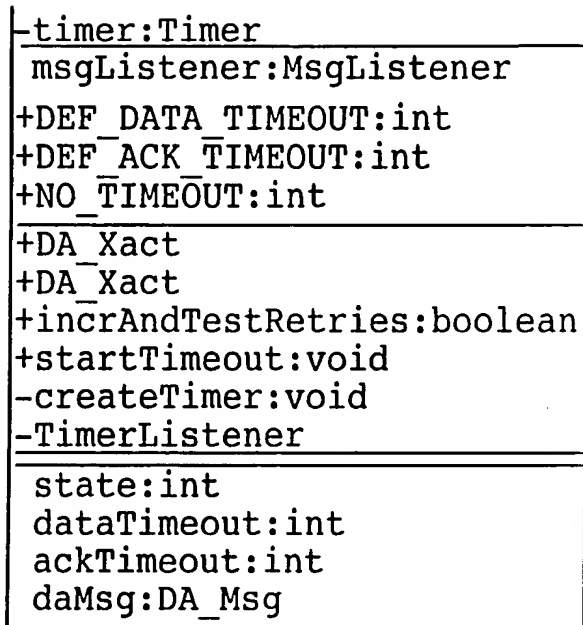


FIG. 5  
(PART 2 OF 5)



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1 Async msg listener

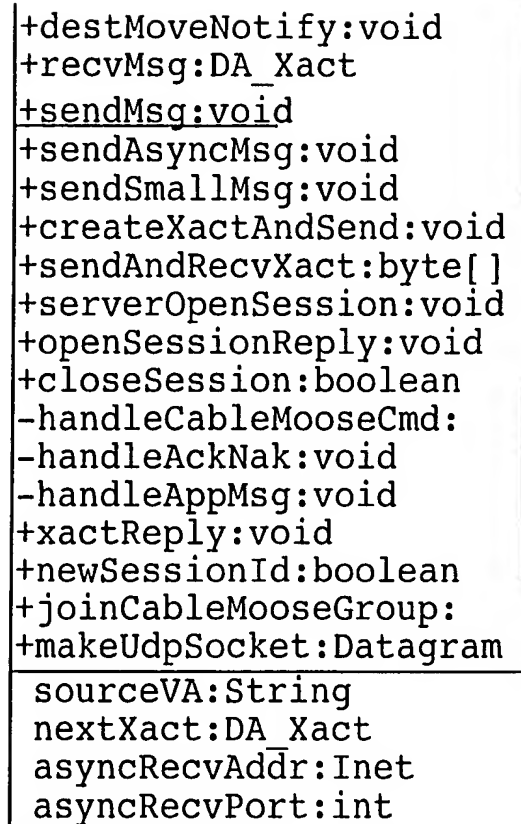
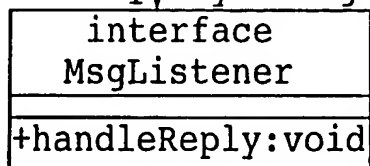


FIG. 5  
(PART 3 OF 5)

+LAST_BUF_LEN_IDX:byte +NAK_REASON_IDX:byte +BUFS_MASK:byte +ACK_MASK:byte +NAK_MASK:byte +REPLY_MASK:byte +VERSION:byte
+DA_Msg +DA_Msg +addData:void +makePktHdr:void +copyHdr:byte[] +allBufsRcvd:boolean +insertSentTime:void +setbuffer:void +getHdrLen:int +parseCmdType:short +parseSessionId:byte +parseXactId:byte +parseFlags:byte +parseBufnum:byte +parseReply:boolean +parseAck:boolean +parseNak:boolean +parseMultiBufs:boolean
cmdType:short sentTime:int databyte[] sessionId:byte xactId:byte flags:byte



Fault
<u>+INVALID_SESSION_ID:short</u>
<u>+INVALID_XACT_ID:short</u>
<u>+INVALID_HDR:short</u>
<u>+RETRIES_EXCEEDED:short</u>
<u>+INVALID_MSG_LEN:short</u>
<u>+BUF_OUT_OF_ORDER:short</u>
<u>+CMD_NOT_FOUND:short</u>
<u>+SOCKET_SECURITY_BREECH:short</u>
<u>+SOCKET_IO_FAILURE:short</u>
<u>+GROUP_JOIN_FAILURE:short</u>
<u>+REPLY_WO_CMD:short</u>
<u>+REPLY_WO_LISTENER:short</u>
<u>+log:void</u>
<u>+log:void</u>
<u>+log:void</u>

CmdTypes
<u>+KILL_CMD_CMD:short</u>
<u>+OPEN_SESSION_CMD:short</u>
<u>+OPEN_SESSION_REPLY_CMD:short</u>
<u>+CLOSE_SESSION_CMD:short</u>
<u>+CLOSE_SESSION_REPLY_CMD:short</u>
<u>+RESERVED_CMD_MASK:short</u>
<u>+APP_CMD_MIN:int</u>
<u>+OPEN_SESSION_CMD_SIZE:int</u>
<u>+OPEN_SESSION_REPLY_SIZE:int</u>

XactStates
<u>+INIT_S:int</u>
<u>+CLIENT_ACK_WAIT_S:int</u>
<u>+CLIENT_DATA_WAIT_S:int</u>
<u>+DONE_S:int</u>
<u>+SERVER_MULTI_BUF_WAIT_S:int</u>
<u>+SERVER_APP_WAIT_S:int</u>

tester
<u>-main:void</u>

FIG. 5  
(PART 5 OF 5)

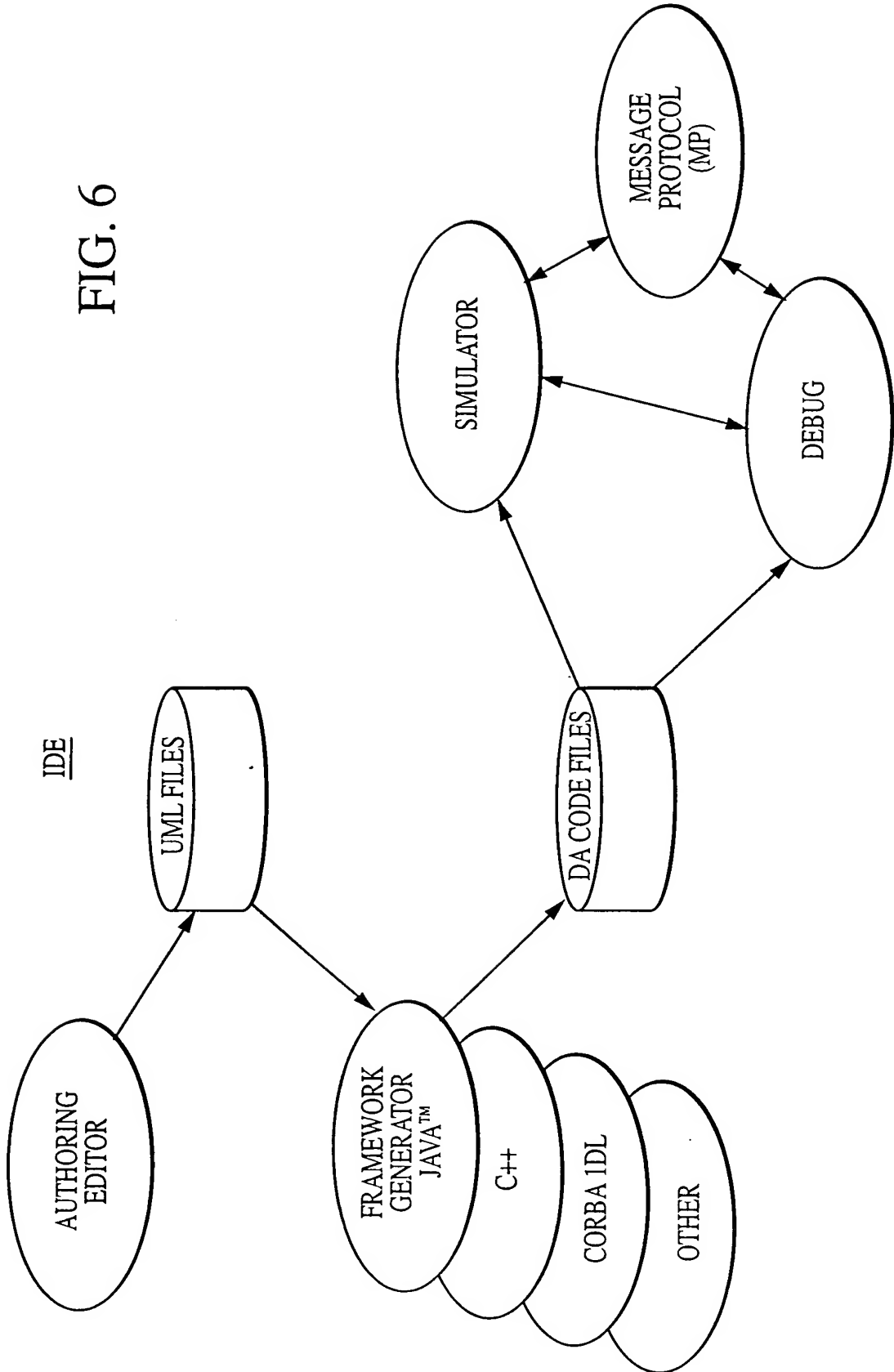


FIG. 6

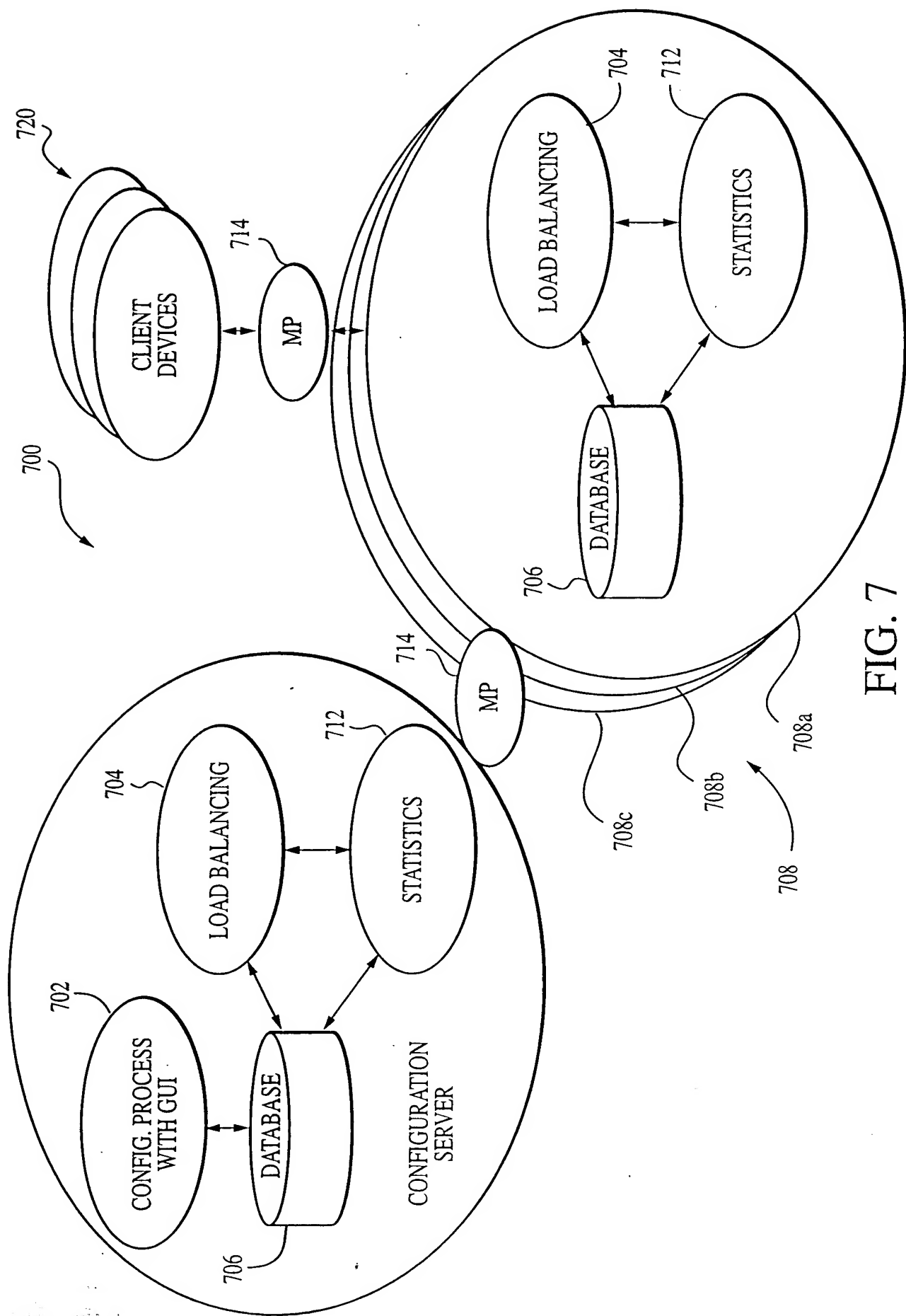


FIG. 7

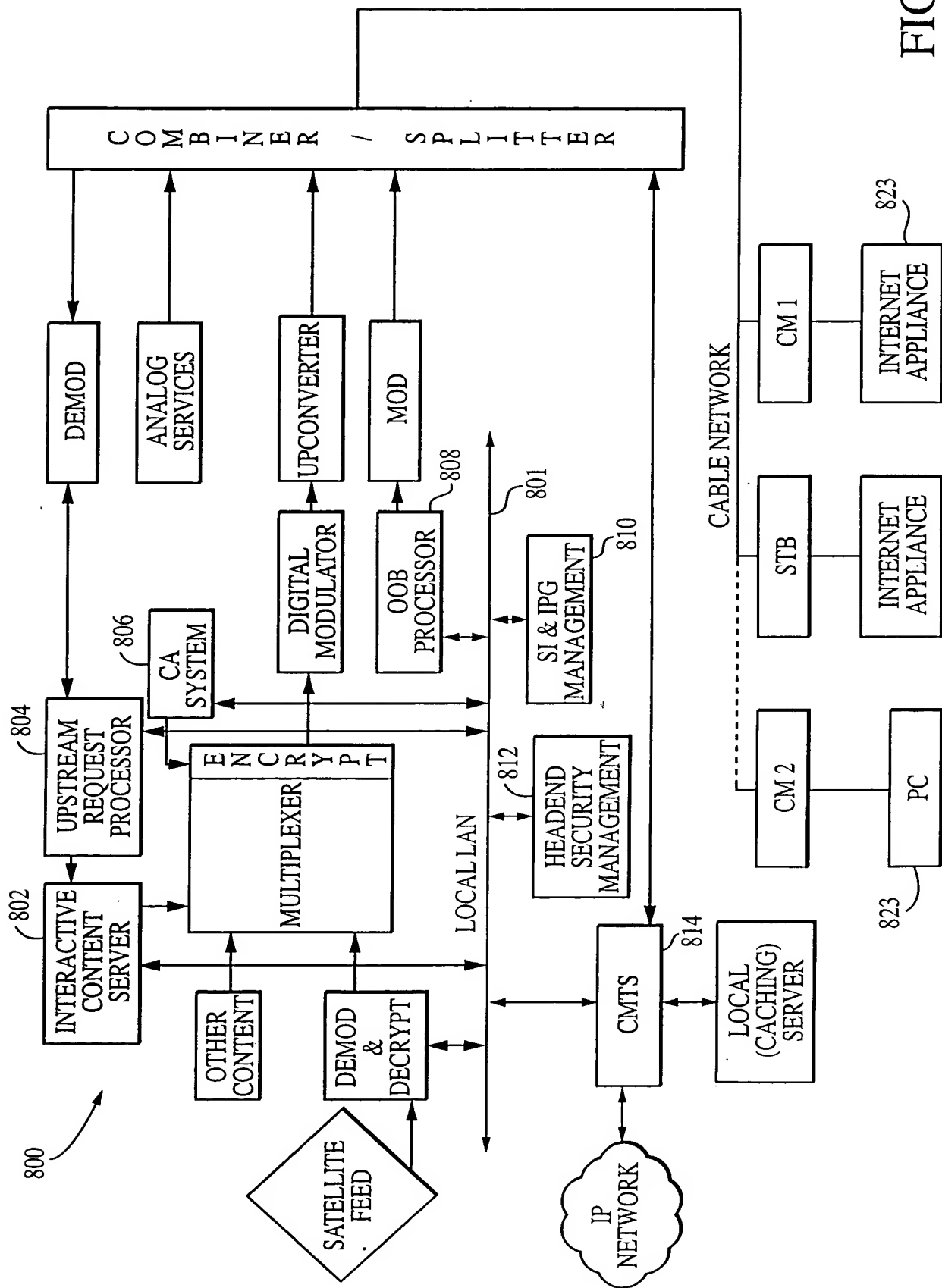


FIG. 8

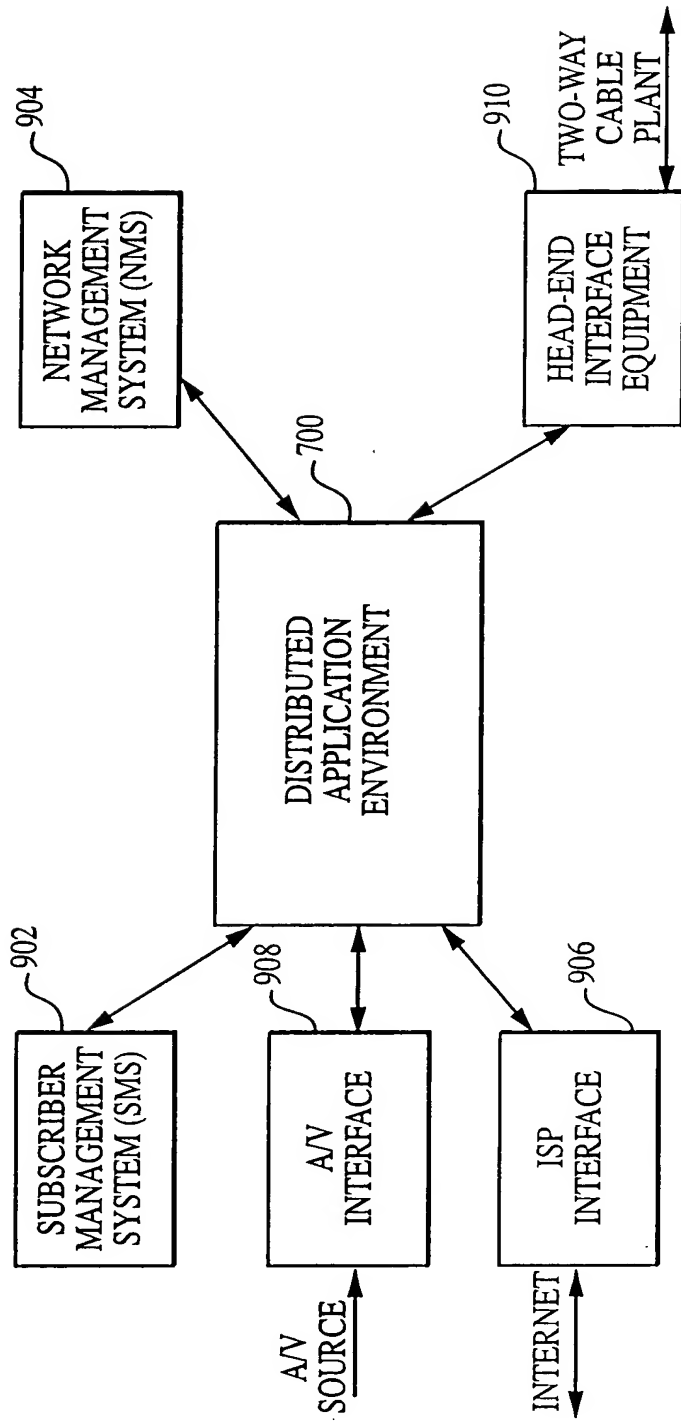


FIG. 9

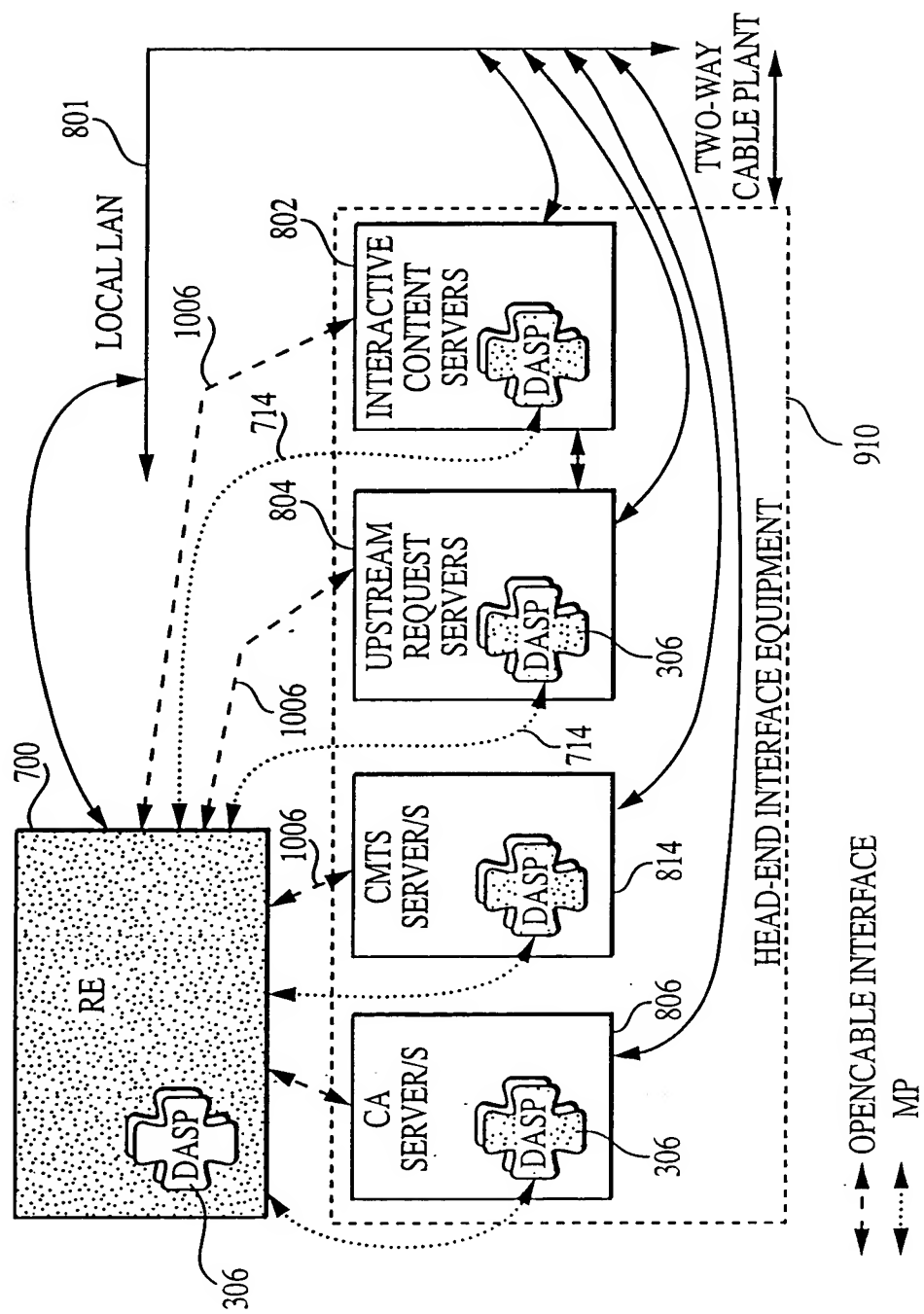


FIG. 10

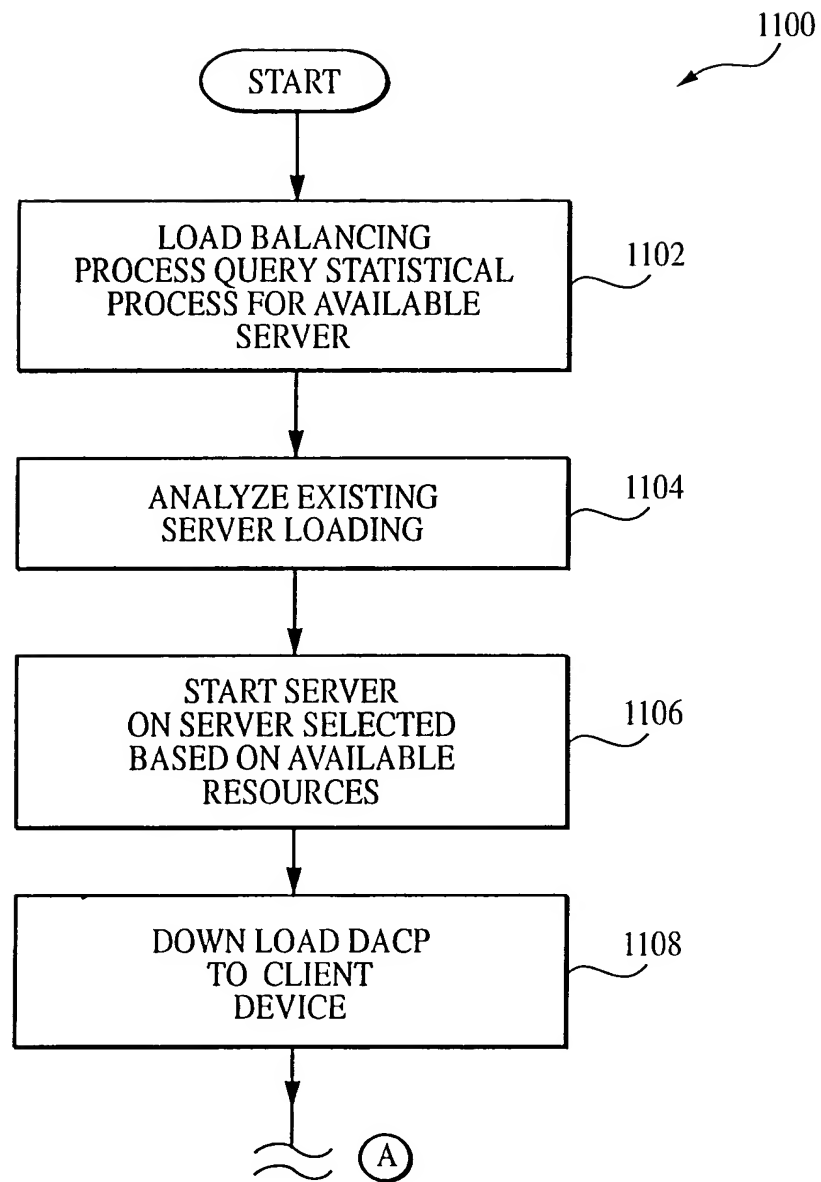


FIG. 11  
(PART 1 OF 2)

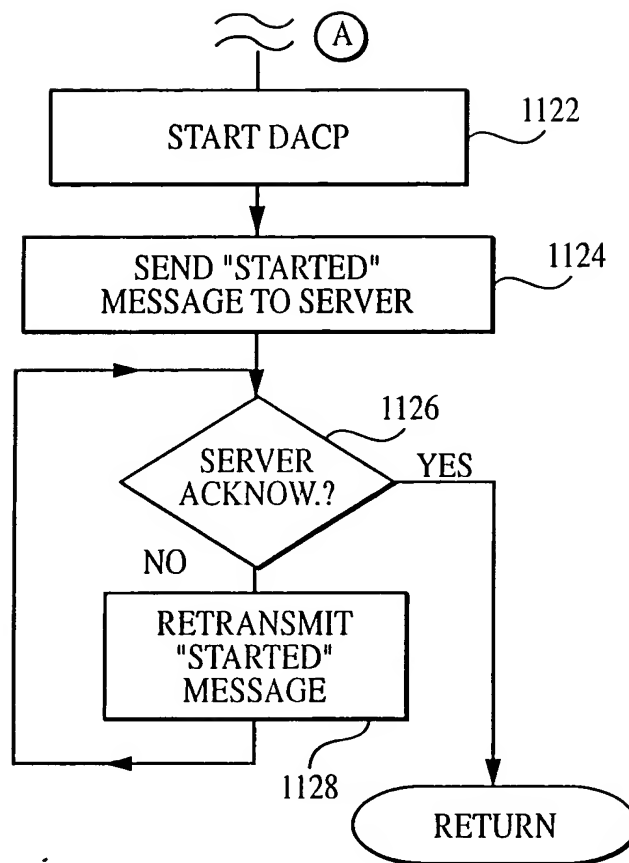


FIG. 11  
(PART 2 OF 2)



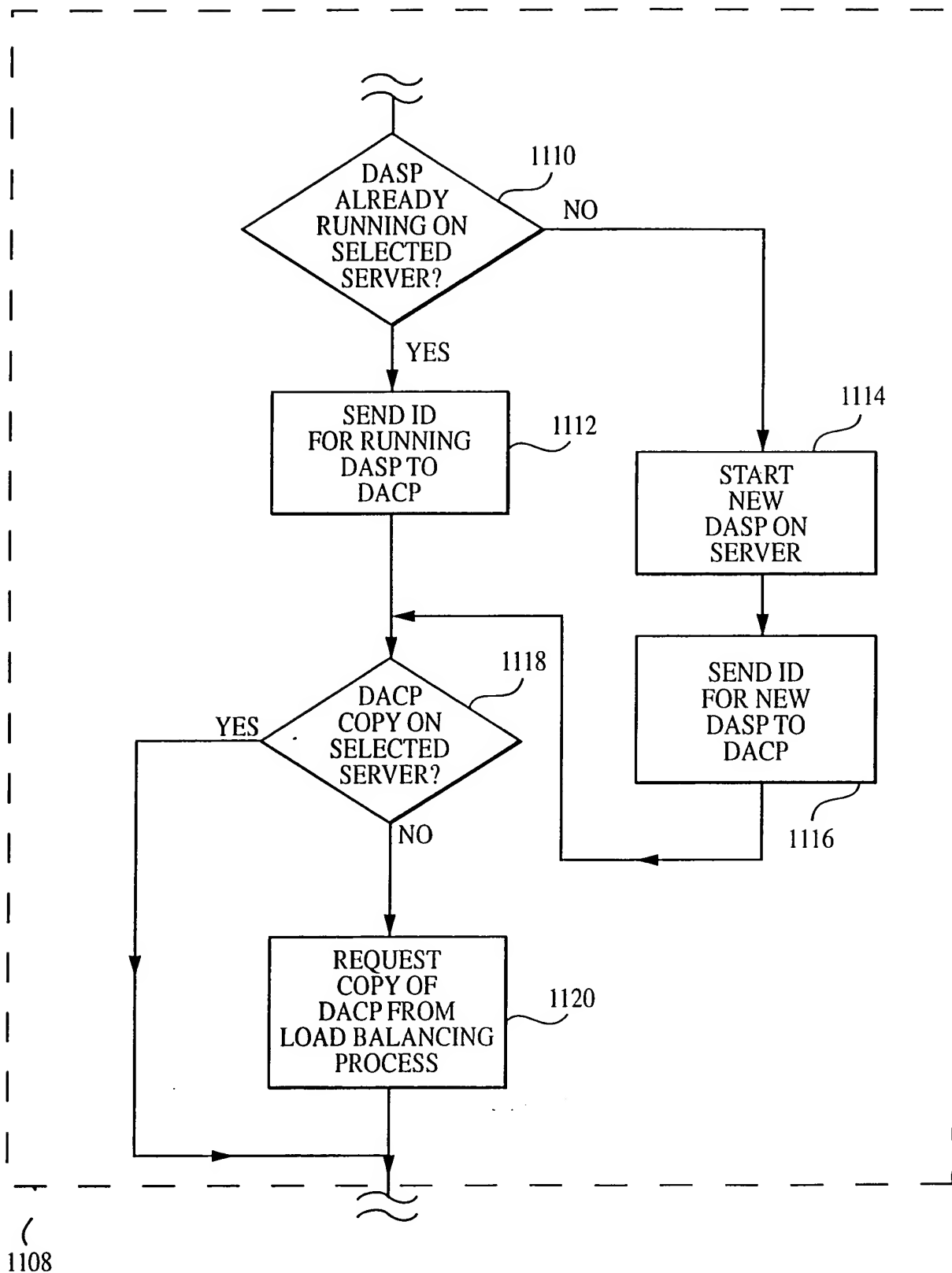


FIG. 12

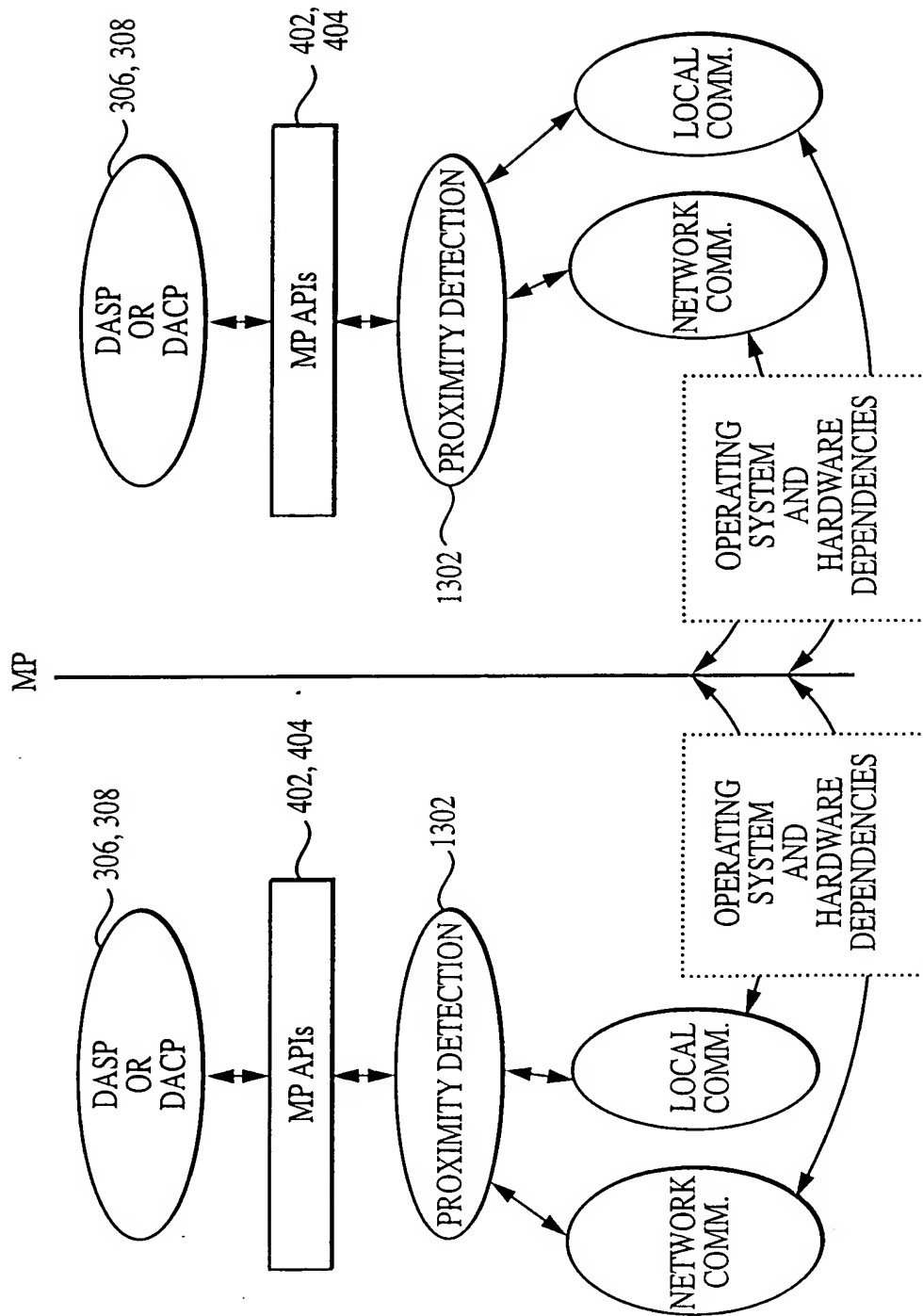


FIG. 13

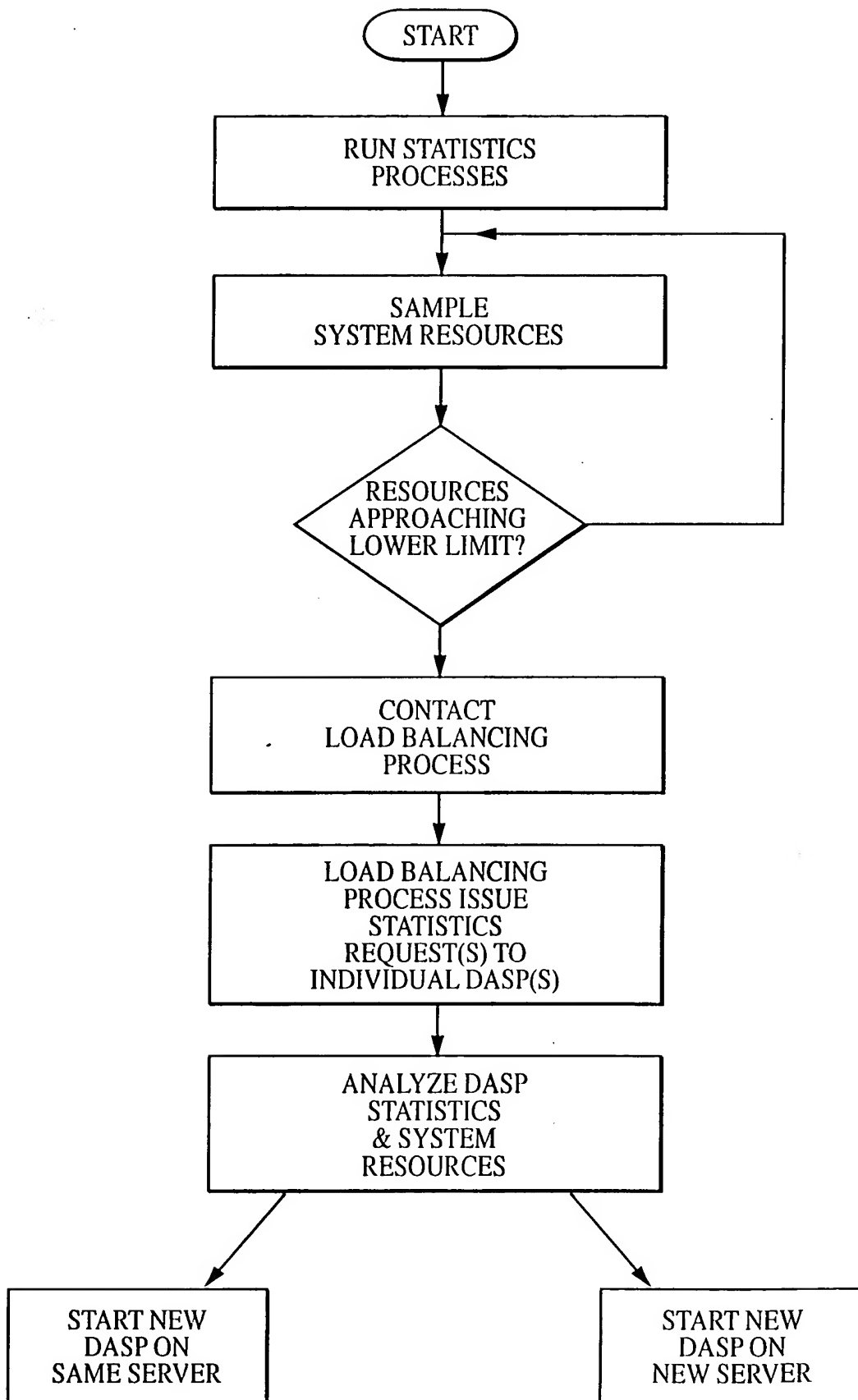


FIG. 14

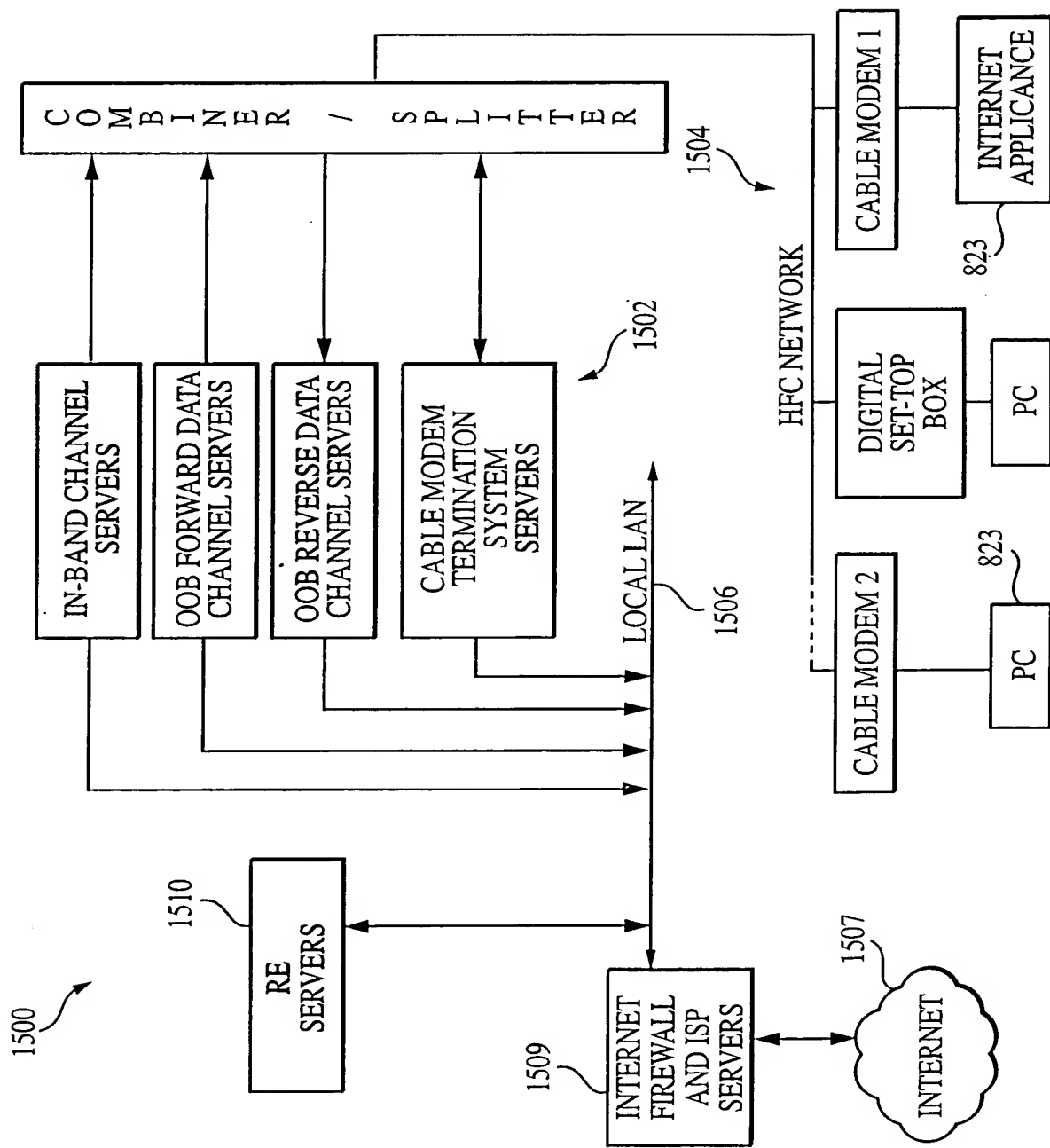


FIG. 15

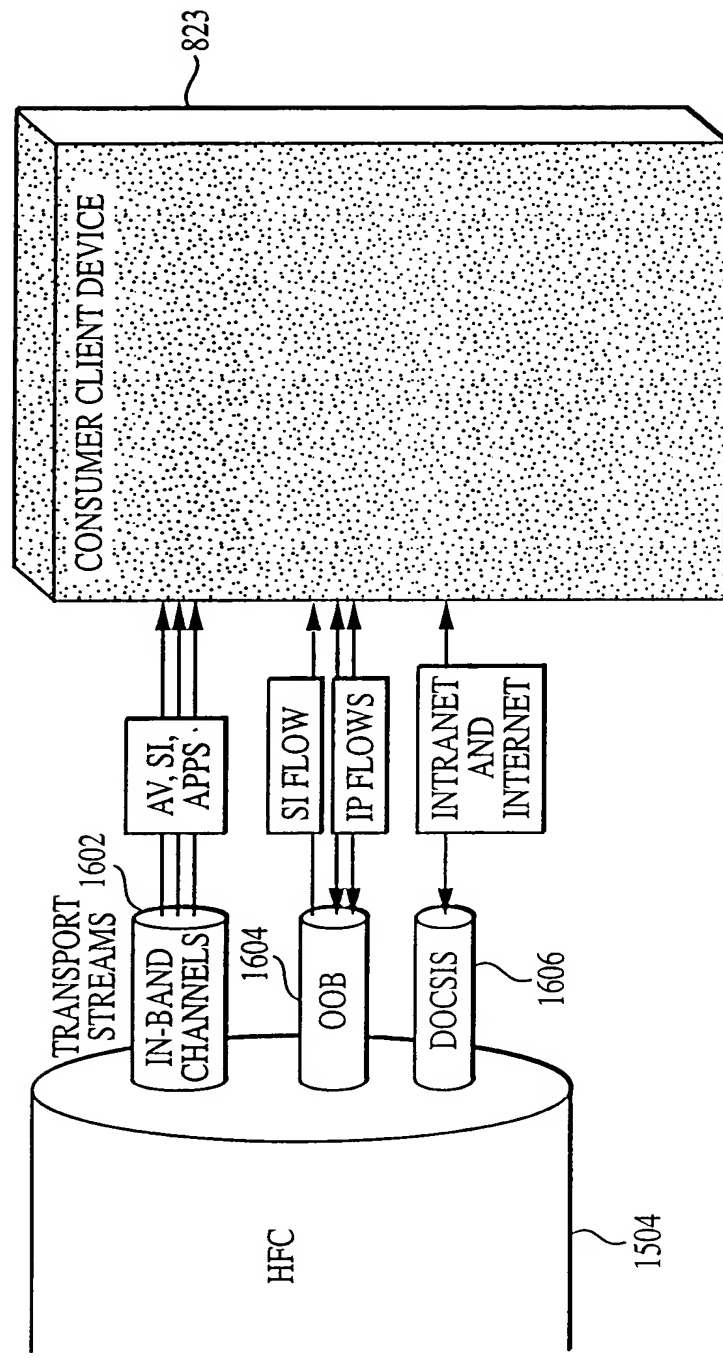


FIG. 16

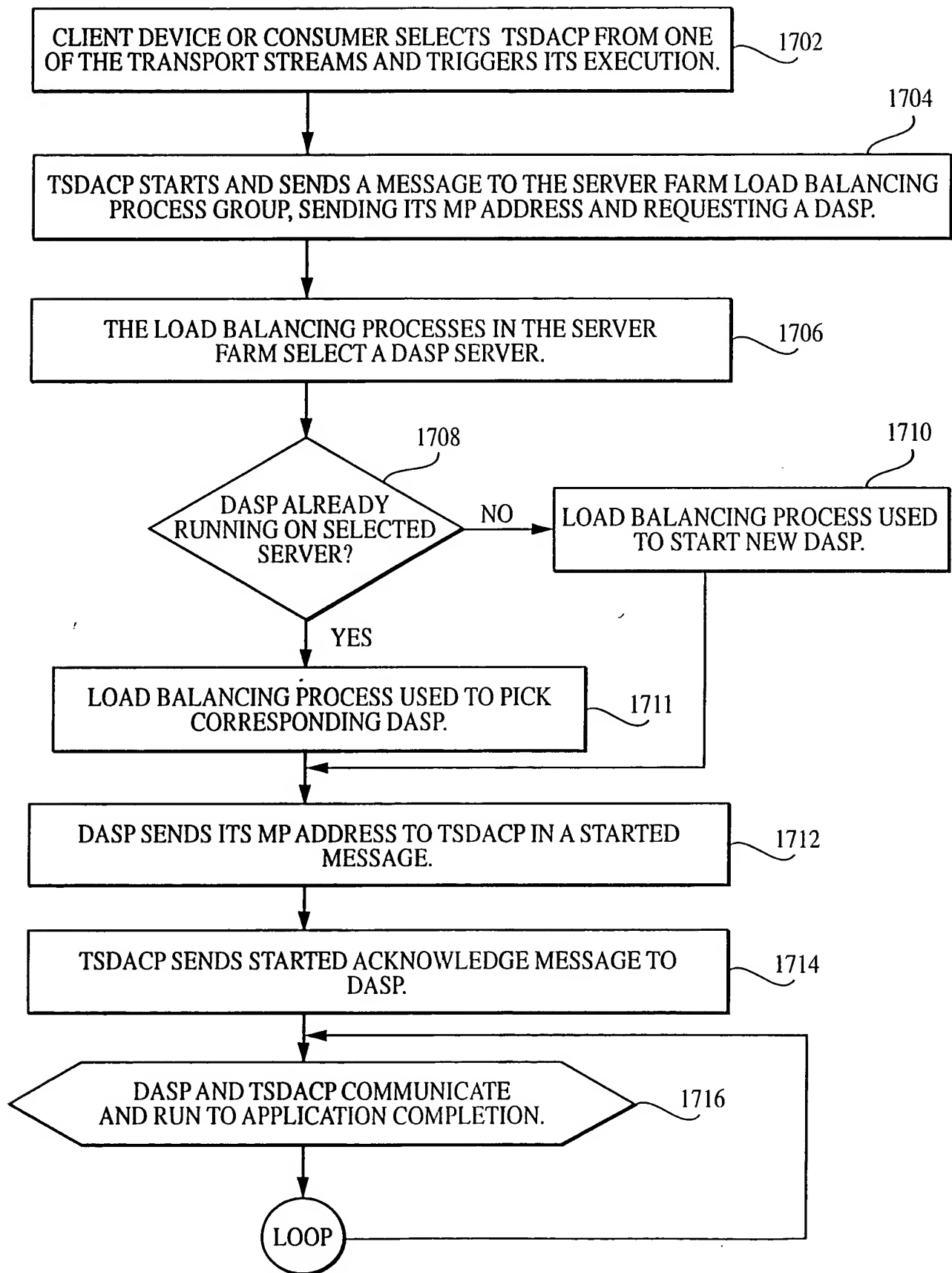


FIG. 17

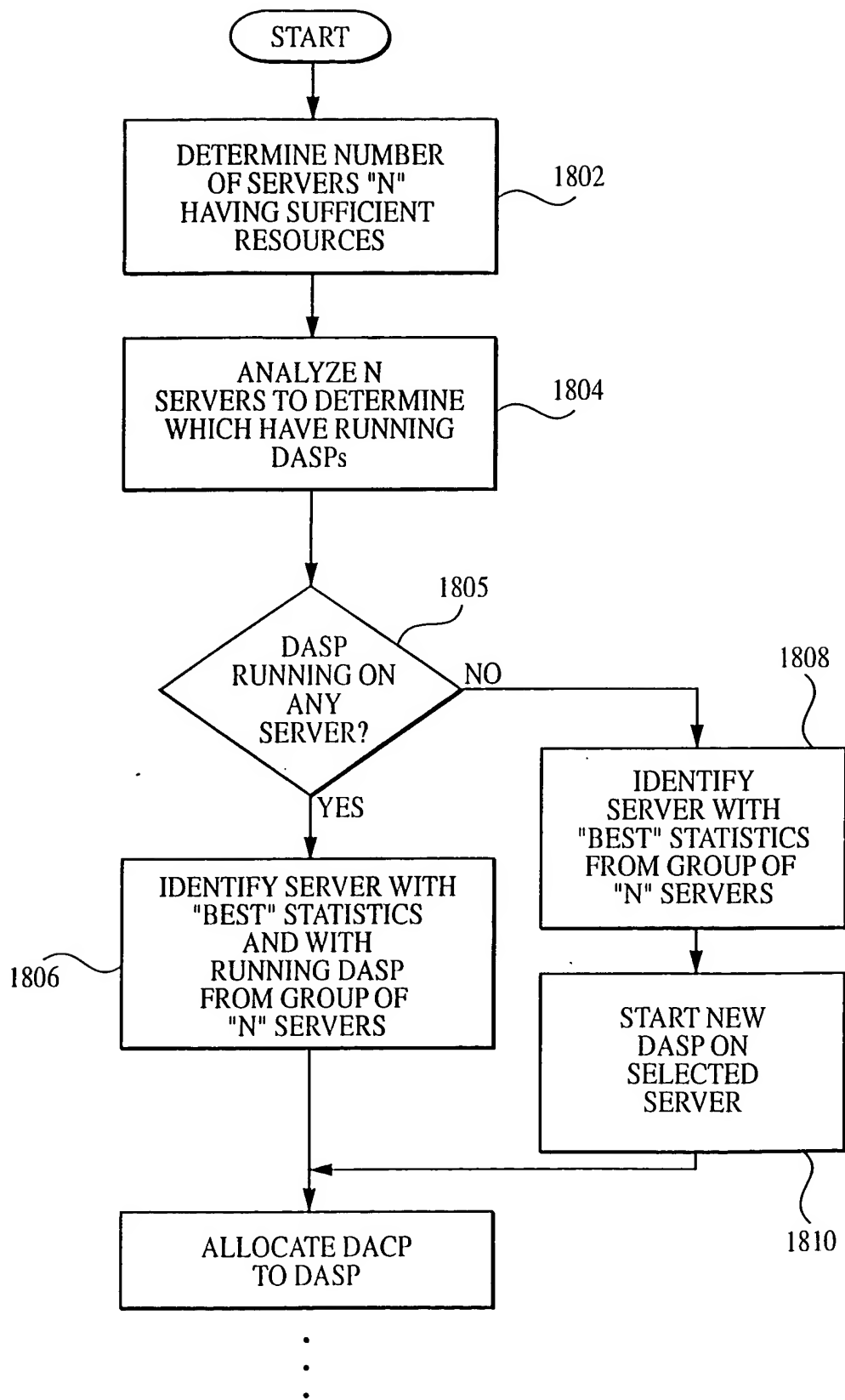


FIG. 18

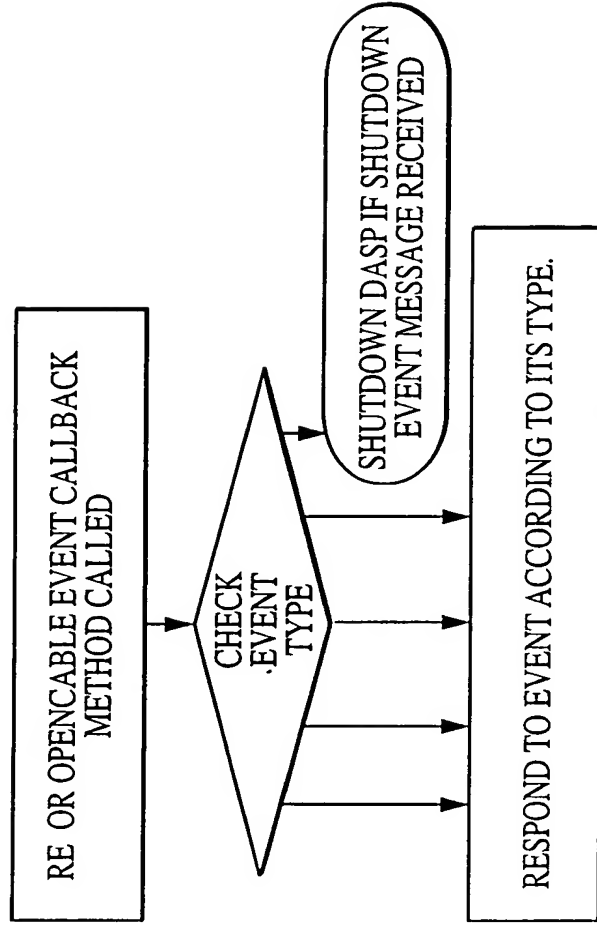


FIG. 19



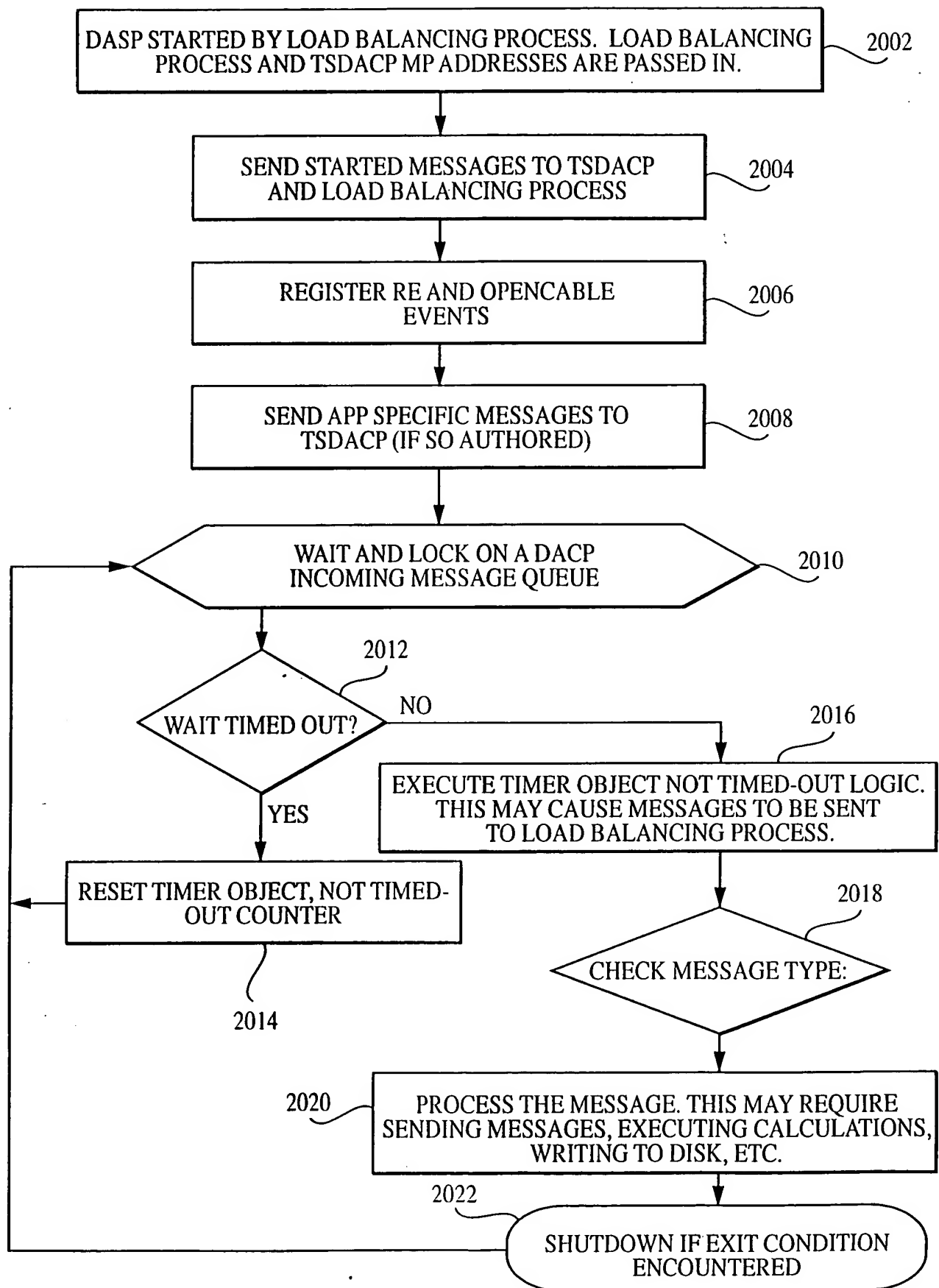


FIG. 20

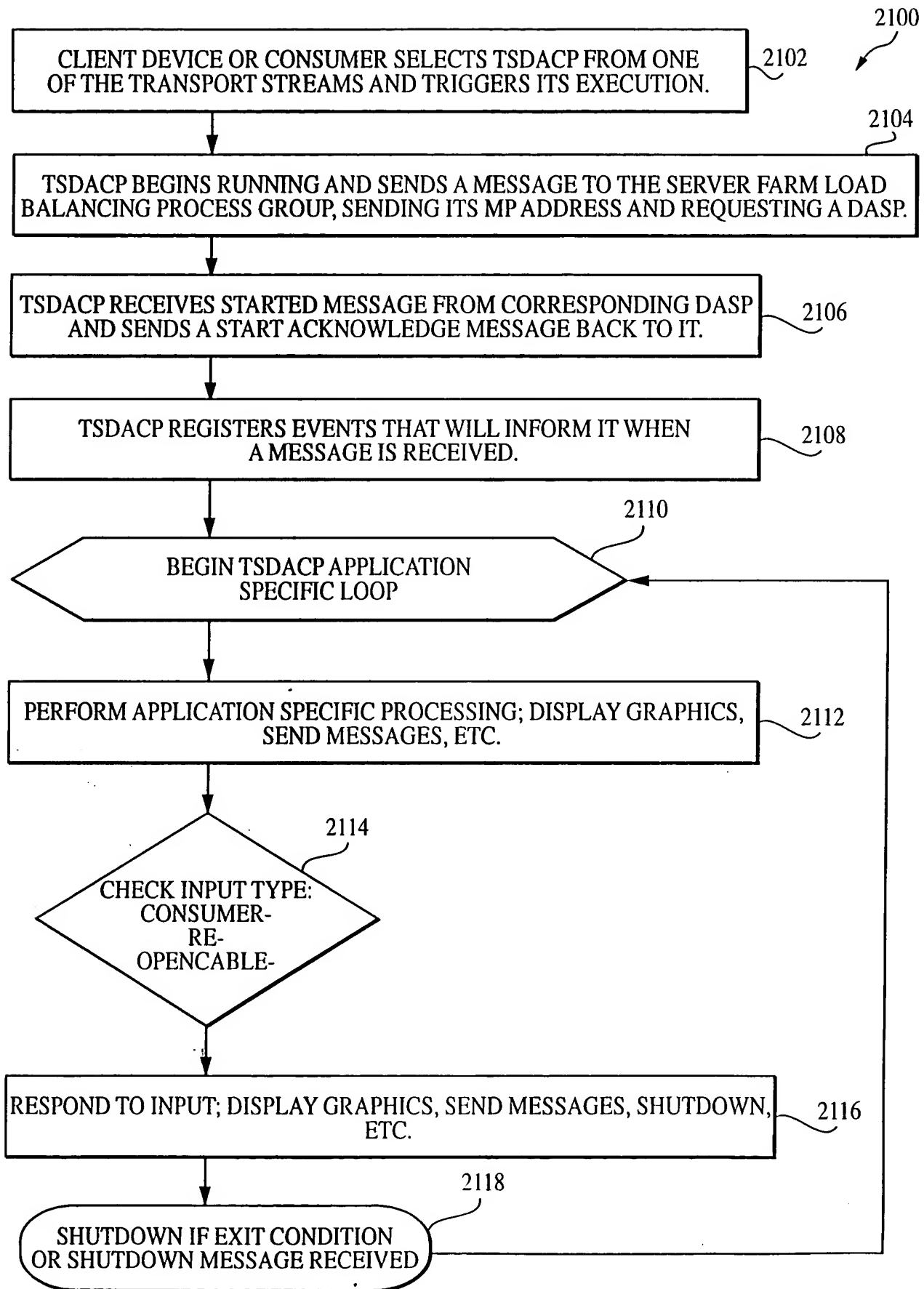


FIG. 21

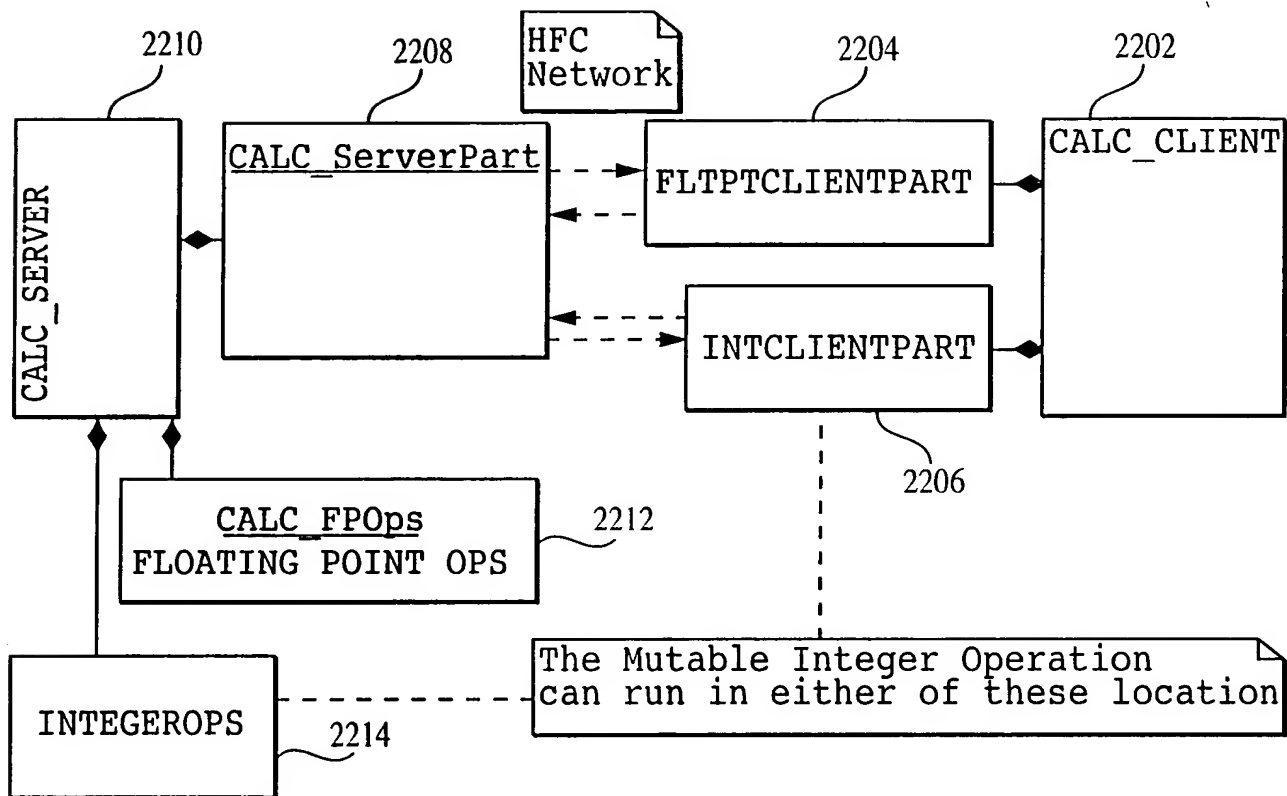


FIG. 22

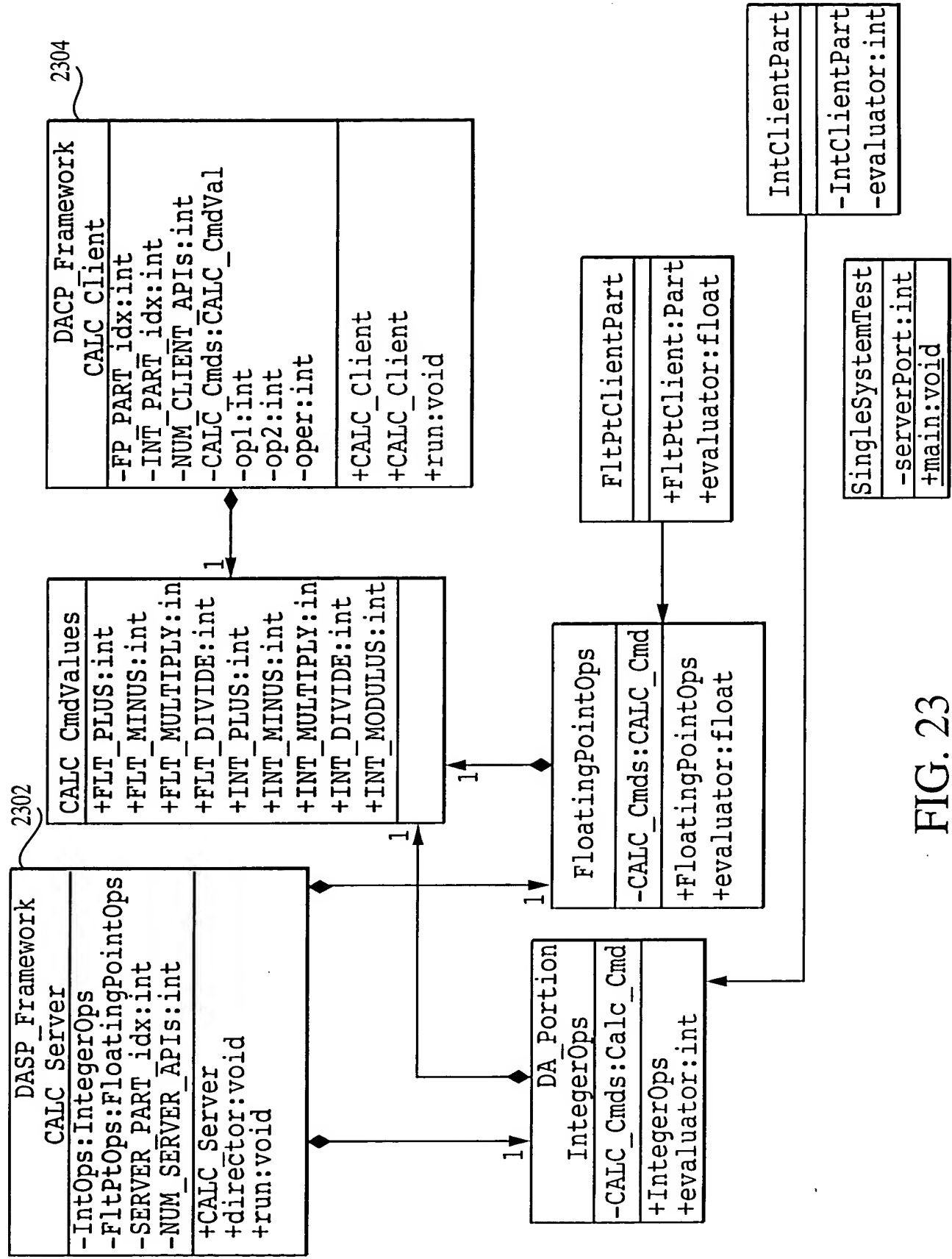


FIG. 23